

Title (en)  
Electrophotographic recording apparatus.

Title (de)  
Elektrophotographisches Aufnahmegerät.

Title (fr)  
Appareil d'enregistrement électrophotographique.

Publication  
**EP 0291226 A2 19881117 (EN)**

Application  
**EP 88304044 A 19880505**

Priority  
• JP 11410887 A 19870511  
• JP 33080887 A 19871225

Abstract (en)  
An electrophotographic recording apparatus comprises means for accurately detecting the amount of consumption of a developer still by means of a simple construction and also means for outputting a signal for indicating to resupply the developer at proper timing. Since the amount of consumption of the developer is substantially proportional to the number of illuminated dots produced by exposing means (2), a CPU (5a) reads, at every predetermined period, output count values of a counter (4), which counts the number of illuminated dots produced by the exposing means (2), and integrally adds up the output count values. Then, the CPU (5a) compares the integration result of the output count values with a predetermined value and thereby decides a shortage of the developer. On the other hand, since the deterioration of a developer is substantially proportional to the operation time period of developing means (8a, 8b), the CPU (5a) integrally adds up the operation time periods of the developing means (8a, 8b), compares the integration result of the operation time periods of the developing means (8a, 8b) with a predetermined time and thereby decides the deterioration of the developer. When the shortage or deterioration of the developer has been detected, the apparatus outputs a signal for indicating to resupply the developer.

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**G03G 15/08**

IPC 8 full level  
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CPC (source: EP KR US)  
**G03G 15/08** (2013.01 - KR); **G03G 15/0849** (2013.01 - EP US); **G03G 15/556** (2013.01 - EP US)

Cited by  
EP0487009A3; EP0588550A3; EP0469796A3; EP0878745A3

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**EP 0291226 A2 19881117**; **EP 0291226 A3 19890614**; **EP 0291226 B1 19921230**; DE 3877051 D1 19930211; DE 3877051 T2 19930429; KR 880014423 A 19881223; KR 920008752 B1 19921009; US 4963927 A 19901016

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